

3M General Offices
3M Center
St. Paul, Minnesota 55144-1000
612/733-1110
Duns No.: 00-617-3082

Industrial Hygiene

FEB 21 1990

02-49
2348

MATERIAL SAFETY
DATA SHEET

3M

DIVISION: ENGINEERING SYSTEM DIVISION

TRADE NAME:

3M BRAND TYPE 852 DEVELOPER PREMIX

3M I.D. NUMBER: GB-2000-4173-8 78-6969-5173-6

ISSUED: DECEMBER 19, 1989

SUPERSEDES: DECEMBER 15, 1989

DOCUMENT: 10-3575-7

1. INGREDIENT	C.A.S. NO.	PERCENT	EXPOSURE		LIMITS	
			VALUE	UNIT	TYPE	AUTH
IRON PARTICLES	7439-89-6	75.0 - 90.0	NONE	NONE	NONE	NONE
STYRENE RESIN	9003-53-6	10.0 - 25.0	NONE	NONE	NONE	NONE
CARBON BLACK	1333-86-4	0.5 - 2.0	3.5	mg/m ³	TWA	ACGIH
SOLVENT BLACK 7	8005-02-5	< 0.1	NONE	NONE	NONE	NONE
SOLVENT BLUE 5	1325-86-6	< 0.1	NONE	NONE	NONE	NONE

SOURCE OF EXPOSURE LIMIT DATA:

- ACGIH: American Conference of Governmental Industrial Hygienists
- NONE: None Established

2. PHYSICAL DATA

BOILING POINT:..... N/A
VAPOR PRESSURE:..... N/A
VAPOR DENSITY: N/A
EVAPORATION RATE:..... N/A
SOLUBILITY IN WATER: Insoluble
SP. GRAVITY:..... N/D
PERCENT VOLATILE: None
VOLATILE ORGANICS: N/D
pH: N/A
VISCOSITY: N/A
APPEARANCE AND ODOR: Fine Black Granular Powder.

3. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:..... N/A
FLAMMABLE LIMITS - LEL: N/A
FLAMMABLE LIMITS - UEL: N/A
AUTOIGNITION TEMPERATURE: ... N/D
EXTINGUISHING MEDIA:
Water, CO₂, Foam
SPECIAL FIRE FIGHTING PROCEDURES:
None.
UNUSUAL FIRE AND EXPLOSION HAZARDS:
None.
NFPA-HAZARD-CODES: HEALTH 1 FIRE 1 REACTIVITY 0
UNUSUAL REACTION HAZARD: None

4. REACTIVITY DATA

STABILITY: Stable
INCOMPATIBILITY - MATERIALS TO AVOID:
None.
HAZARDOUS POLYMERIZATION: Will Not Occur
HAZARDOUS DECOMPOSITION PRODUCTS:
Styrene Monomer, CO, CO₂

Abbreviations: N/D - Not Determined N/A - Not Applicable

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5. ENVIRONMENTAL INFORMATION

SPILL RESPONSE:

Observe precautionary information from other sections. Vacuum or sweep up spilled material.

RECOMMENDED DISPOSAL:

Dispose of as dry scrap in accordance with state and local regulations.

ENVIRONMENTAL DATA:

Not determined.

SARA HAZARD CLASS:

FIRE HAZARD: No PRESSURE: No REACTIVITY: No ACUTE: Yes CHRONIC: No

6. SUGGESTED FIRST AID

EYE CONTACT:

In case of eye contact, flush eyes with plenty of water and contact a physician.

SKIN CONTACT:

N/A

INHALATION:

If respiratory irritation or other symptoms occur, move to fresh air.

IF SWALLOWED:

N/A

OTHER FIRST AID:

NONE

7. PRECAUTIONARY INFORMATION

Avoid eye contact and prolonged or repeated breathing of dust.
Keep out of reach of children.
Store in a cool, dry place.

ADDITIONAL EXPOSURE LIMITS

INGREDIENTS	---- EXPOSURE LIMITS ----			
	VALUE	UNIT	TYPE	AUTH
CARBON BLACK	3.5	mg/m3	TWA	OSHA

SOURCE OF EXPOSURE LIMIT DATA:

- OSHA: Occupational Safety and Health Administration

8. HEALTH HAZARD DATA

EYE CONTACT: Dust may cause slight eye irritation.

SKIN CONTACT: No adverse health effects are expected.

Abbreviations: N/D - Not Determined N/A - Not Applicable

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8. HEALTH HAZARD DATA

(continued)

INHALATION: Dust may cause slight upper respiratory system irritation.

INGESTION: No adverse health effects are expected.

ADDITIONAL EXPOSURE LIMITS: Carbon Black 3.5 mg/m³ TWA (OSHA)

Abbreviations: N/D - Not Determined N/A - Not Applicable

The information on this Data Sheet represents our current data and best opinion as to the proper use in handling of this material under normal conditions. Any use of the material which is not in conformance with this Data Sheet or which involves using the material in combination with any other material or any other process is the responsibility of the user.

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MATERIAL SAFETY
DATA SHEET



DIVISION: ENGINEERING SYSTEM DIVISION
TRADE NAME:
3M BRAND QUANTIMATIC TONER TYPE 748F
3M I.D. NUMBER: 78-6969-5092-8

ISSUED: DECEMBER 19, 1989
SUPERSEDES: DECEMBER 15, 1989
DOCUMENT: 10-3574-0

1. INGREDIENT	C.A.S. NO.	PERCENT	----- EXPOSURE		LIMITS -----	
			VALUE	UNIT	TYPE	AUTH
Polystyrene Resin Or	9003-53-6	85.0 - 95.0	NONE	NONE	NONE	NONE
Styrene Acrylate Resin	25767-47-9	85.0 - 95.0	NONE	NONE	NONE	NONE
Carbon Black	1333-86-4	5.0 - 15.0	3.5	mg/m3	TWA	ACGIH
Solvent Black 7	8005-02-5	1.0 - 3.0	NONE	NONE	NONE	NONE
Solvent Blue 5	1325-86-6	< 3.0	NONE	NONE	NONE	NONE

SOURCE OF EXPOSURE LIMIT DATA:

- ACGIH: American Conference of Governmental Industrial Hygienists
- NONE: None Established

2. PHYSICAL DATA

BOILING POINT:..... N/A
VAPOR PRESSURE:..... N/A
VAPOR DENSITY: N/A
EVAPORATION RATE:..... N/A
SOLUBILITY IN WATER: Insoluble
SP. GRAVITY:..... N/D
PERCENT VOLATILE: 0
VOLATILE ORGANICS: N/D
pH: N/A
VISCOSITY: N/A
APPEARANCE AND ODOR: Fine black powder.

3. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:..... N/A
FLAMMABLE LIMITS - LEL: N/A
FLAMMABLE LIMITS - UEL: N/A
AUTOIGNITION TEMPERATURE: ... N/D
EXTINGUISHING MEDIA:
Foam, CO2, Dry Chemical
SPECIAL FIRE FIGHTING PROCEDURES:
None
UNUSUAL FIRE AND EXPLOSION HAZARDS:
Due to fine particle size, possibly explosive if dispersed in air in
high concentrations.
NFPA-HAZARD-CODES: HEALTH 1 FIRE 1 REACTIVITY 0
UNUSUAL REACTION HAZARD: None

4. REACTIVITY DATA

STABILITY: Stable
INCOMPATIBILITY - MATERIALS TO AVOID:
Not determined.
HAZARDOUS POLYMERIZATION: Will Not Occur
HAZARDOUS DECOMPOSITION PRODUCTS:
Styrene Monomer, CO2, CO

Abbreviations: N/D - Not Determined N/A - Not Applicable

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5. ENVIRONMENTAL INFORMATION

SPILL RESPONSE:

Observe precautionary information from other sections. Vacuum or sweep up spilled material being careful not to make the powder airborne. Be cautious walking on the powder, slip hazard.

RECOMMENDED DISPOSAL:

Dispose with regular trash. Disposal may be by burial in a sanitary landfill or incineration. Disposal should comply to all state and local regulations.

ENVIRONMENTAL DATA:

Not determined.

SARA HAZARD CLASS:

FIRE HAZARD: No **PRESSURE:** No **REACTIVITY:** No **ACUTE:** Yes **CHRONIC:** No

6. SUGGESTED FIRST AID

EYE CONTACT:

N/A

SKIN CONTACT:

N/A

INHALATION:

If respiratory irritation or other symptoms occur, move to fresh air.

IF SWALLOWED:

If swallowed, contact a physician or poison control center.

OTHER FIRST AID:

NONE

7. PRECAUTIONARY INFORMATION

Avoid prolonged or repeated breathing of dust.

Store in a cool, dry place.

Keep out of reach of children.

ADDITIONAL EXPOSURE LIMITS

INGREDIENTS	---- EXPOSURE LIMITS ----			
	VALUE	UNIT	TYPE	AUTH
Carbon Black	3.5	mg/m3	TWA	OSHA

SOURCE OF EXPOSURE LIMIT DATA:

- OSHA: Occupational Safety and Health Administration

Abbreviations: N/D - Not Determined N/A - Not Applicable

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8. HEALTH HAZARD DATA

EYE CONTACT: No adverse health effects are expected. (A similar product was practically non-irritating when tested in laboratory animals.)

SKIN CONTACT: No adverse health effects are expected. (A similar product was non-irritating when tested in laboratory animals.)

INHALATION: Dust may cause slight upper respiratory system irritation. (A similar product caused no adverse effects in laboratory animals at levels below 0.4mg/m³.)

INGESTION: No adverse health effects are expected.

ADDITIONAL EXPOSURE LIMITS: Carbon Black 3.5mg/m³ TWA (OSHA).

Abbreviations: N/D - Not Determined N/A - Not Applicable

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